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【書類名】 図面

【図】

Junji KOGURE et al.
PLASMA DISPLAY PANEL MANUFACTURING
METHOD....
Filing date: December 16, 2003
Darryl Mexic 202-663-7909
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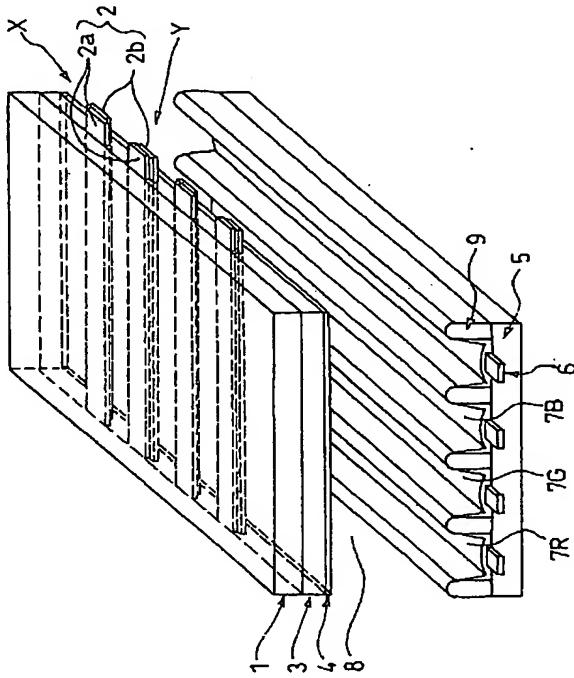


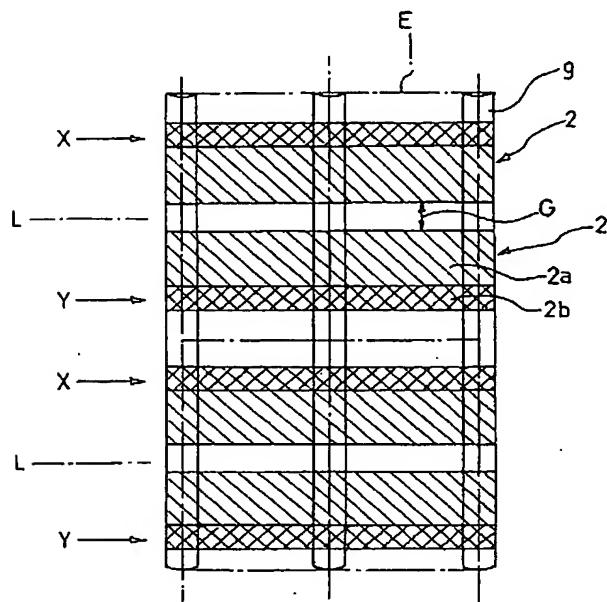
Fig. 1
Prior Art

技術手

[図2] Fig. 2

従来技術

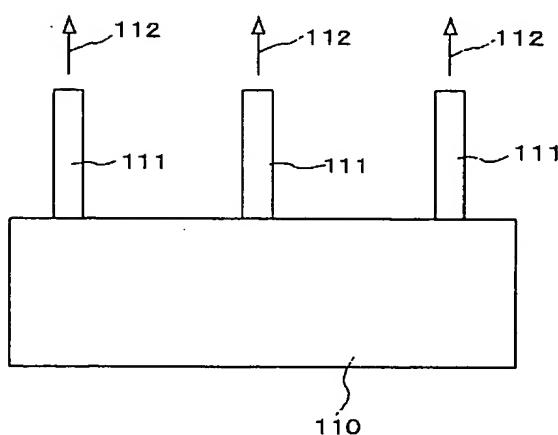
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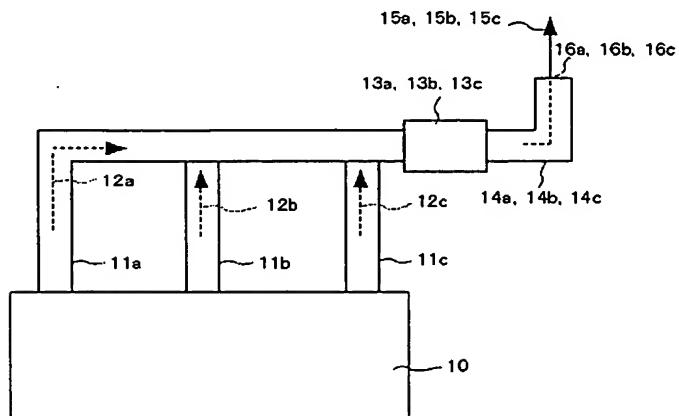
[図3] Fig. 3

従来技術

Prior Art



[図4] Fig. 4



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[図5] Fig. 5

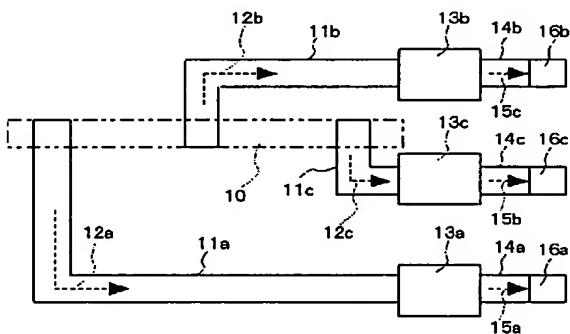
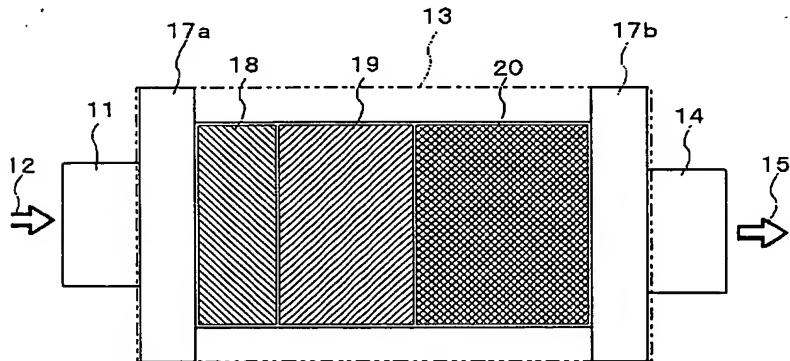


図6

F:8.6

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purification / deodorization target
 substances (toluene, ethyl oxide,
 acetaldehyde, carbon monoxide etc.)

heat to predetermined temperatures
 所定温度に過熱

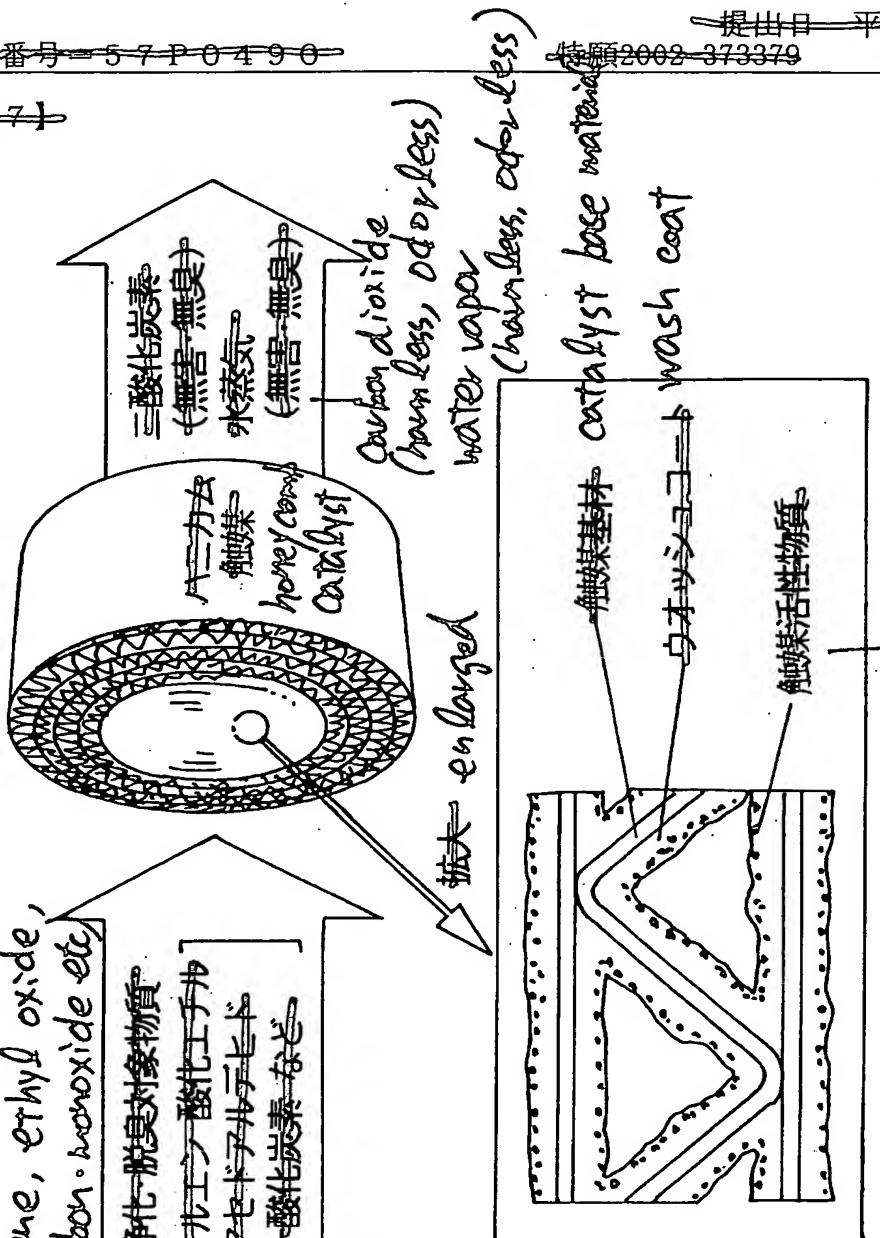


Fig. 1

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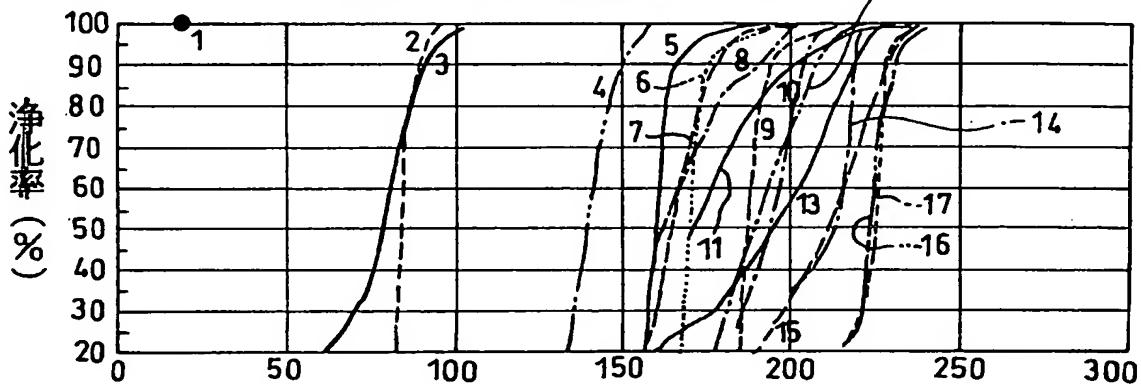
Proof 2002/12/25

図8 F: d. 8(a)

(a)

purification properties of metal honeycomb catalyst
メタルハニカム触媒の浄化特性

degree of purification



F: d. 8(b)

(b)

触媒入口ガス温度(°C)

catalyst inlet gas temperature
chemical formula

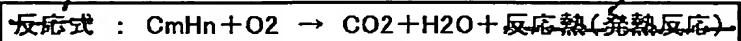
concentration

space
velocity

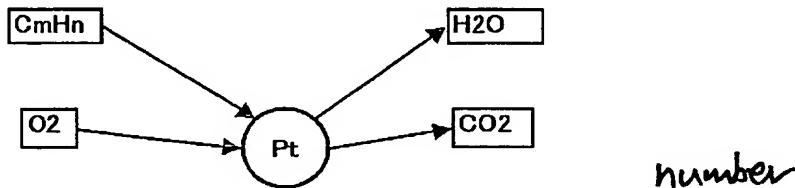
No.	Substance name 物質名	Chemical formula 化学式	濃度 (ppm)	空間速度 (h ⁻¹)
1	水素	H ₂	1%	60,000
2	酸化炭素	CO	1,000	60,000
3	メチルアルコール(水蒸気7.4%)	CH ₃ OH	100	30,000
4	エチル	C ₂ H ₄	5,000	60,000
5	シクロヘキサン	C ₆ H ₁₀ O	550	60,000
6	トルエン	C ₆ H ₅ CH ₃	550	60,000
7	メチルエチルケトン(MEK)	C ₂ H ₅ COCH ₃	650	60,000
8	三硫化メチル(DMSO)(水蒸気7.4%)	(CH ₃) ₂ S	10	30,000
9	エチル	C ₆ H ₄ (CH ₃) ₂	550	60,000
10	アセチニア(水蒸気7.4%)	NH ₃	300	30,000
11	トリメチルアミン(水蒸気7.4%)	(CH ₃) ₃ N	30	30,000
12	アセトアルデヒド(水蒸気7.4%)	CH ₃ CHO	140	30,000
13	エチルアルコール	C ₂ H ₅ OH	300	30,000
14	タレツルルフュード	CH ₃ C ₆ H ₄ OH+C ₆ H ₅ OH	660+440	60,000
15	トリエチルアミン	(C ₂ H ₅) ₃ N	300	30,000
16	酢酸(水蒸気7.4%)	CH ₃ COOH	100	30,000
17	ジメチルホルムアルデヒド	HCON(CH ₃) ₂	740	60,000

図9 Fig. 9

reaction formula



reaction heat (exothermal reaction)



反応熱による温度上昇(1000ppm濃度) [度] = $10 + 20 \times \text{C(炭素)数} [^\circ\text{C}]$

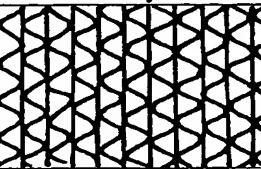
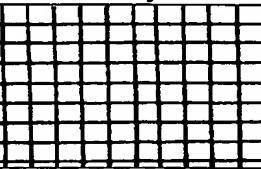
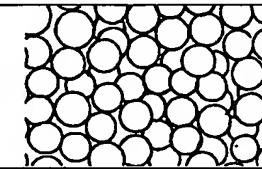
temperature rise
resulting from
reaction heat

(1000 ppm concentration
gas combustion)

number
carbon

FIG. 10

Comparison of Properties of Various Catalysts

Catalyst Type	Metal Honeycomb Catalyst	Ceramic Honeycomb Catalyst	Pellet Catalyst
Catalyst Type			
Basic Composition	Fe-Cr-Al	SiO ₂ -Al ₂ O ₃ -MgO	γ-Al ₂ O ₃
Coefficient of Heat Conductivity	Large	Small	Small
Filled Specific Gravity	0.4 to 0.6	0.6 to 0.7	0.4 to 0.8
Heat Capacity	Small	Moderate	Large
Standard SV Value	30,000 to 60,000 h ⁻¹	20,000 to 40,000 h ⁻¹	10,000 to 30,000 h ⁻¹
Pressure Loss (*)	5.5	7.1	41.5
Mechanical Strength	Strong	Weak	Moderate
Thermal Shock Resistance	Strong	Weak	Moderate

(*: Measured value under an atmosphere of 200°C and 1 Nm/s.)